

IN THE CLAIMS

1. (Currently Amended) A storage area network (SAN) management system to generate perspectives of a SAN topology, the SAN management system including:
 - a SAN manager program to monitor a storage area network (SAN), said SAN manager program capable of generating an adjacency matrix, ~~and~~ said SAN manager program capable of facilitating direct data transfers between storage devices without server intervention, and said SAN manager program utilizing information gathered in the generating of prior SAN perspectives,
 - a SAN management database linked with the SAN manager program, wherein the SAN management database maintains information identifying devices included within the SAN and connections between the devices;
 - a plurality of sensor agents positioned within devices included within the SAN, wherein the sensor agents gather information associated with events occurring within the SAN and provide the gathered information to the SAN manager for inclusion within the SAN management database; and
 - a topology viewer linked to the SAN manager to generate a user requested topology perspective according to data included within the SAN management database and data associated with a previously requested topology perspective, said topology viewer including memory for storing information pertaining to previously requested topology perspectives, said topology viewer enabled to generate a view of physical connections given a selection of a logical connection.

2. The system of claim 1 wherein the SAN includes hosts, storage devices and switches.
3. The system of claim 2 wherein the host comprises a database server or a file server.
4. The system of claim 1 wherein the topology perspective is generated for all devices within the SAN which are visible to a particular host.
5. The system of claim 1 wherein the topology perspective is generated for all devices within the SAN which are visible to a particular storage device.
6. (Cancelled)
7. (Cancelled)
8. (Currently Amended) The system of ~~claim 7~~ claim 1 wherein the information pertaining to previously requested topology perspectives includes paths which provide access between devices within the SAN.
9. (Currently Amended) A method for generating a perspective of a SAN topology, comprising:
 - receiving a request to provide a perspective of a SAN topology;
 - analyzing the request at a topology viewer and sending the request to a SAN management program for adjacent nodes;

receiving adjacent nodes from the SAN management program by the topology viewer and comparing them against a topology viewer cache to identify modes already included with an adjacency matrix;

determining by the topology viewer those nodes which should not be in the adjacency matrix;

calculating data paths within the requested perspective which have not been previously calculated; ~~and~~

utilizing information gathered in the generating of prior SAN topology perspectives by the SAN management program from memory in the SAN management program allocated for that purpose,

generating the requested perspective according to both the previously calculated data paths and the calculated data paths; and,

enabling the generation of a view of physical connections given a logical data connection.

10. The method of claim 9 wherein the perspective includes all SAN devices within the SAN topology which are connected to an identified SAN device and all SAN devices which are accessible to the identified SAN device, wherein the identified SAN device is included within the SAN topology.
11. (Currently Amended) The method of claim 10 wherein the perspective includes a graphical map of all devices within the SAN topology which are visible to the

identified device, and connections between all of the devices included within the graphical map.

12. The method of claim 10 wherein the identified SAN device includes a host, a storage device and a switch.
13. The method of claim 12 wherein the host comprises a database server or a file server and the storage devices comprise JBODs and storage controllers.
14. (Currently Amended) A SAN management system device including system readable code readable by a server system for generating a perspective of a SAN topology, comprising:
 - logic means for receiving a request to provide a perspective of a SAN topology;
 - logic means for analyzing the request at a topology viewer and sending the request to a SAN management program for adjacent nodes;
 - logic means for receiving adjacent nodes from the SAN management program by the topology viewer and comparing them against a topology viewer cache to identify nodes already included with an adjacency matrix;
 - logic means for determining by the topology viewer those nodes which should not be in the adjacency matrix;
 - logic means for calculating data paths within the requested perspective

which have not been previously calculated; and
logic means for generating the requested perspective according to both the
previously calculated data paths stored in memory allocated for
that purpose and the calculated data paths,
whereby the perspective includes all SAN devices within the SAN
topology which are connected to an identified SAN device and all
SAN devices which are accessible to the identified SAN device,
wherein the identified SAN device is included within the SAN
topology, ~~whereby the SAN device includes a host, a storage~~
~~device and a switch-; and,~~
logic means for generating a view of physical connections given a
selection of a logical connection.

15. (Cancelled)